

Recovery Plan Action Status

Plan Name: Draft Recovery Plan for Chaparral and Scrub Community Species East of San Francisco Bay, California

Plan Status: Draft

Plan Date: 07-Apr-03

Lead Agency: USFWS

Lead Office: Sacramento Fish And Wildlife Office

(916)

414-6600)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	1	Form Recovery Implementation Team	Not Started			California Department of Transportation, County governments, East Bay Regional Park District, University of California at Berkeley, California Native Plant Society, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Shea Homes (owners of the Pleasanton Conservation Bank), City of Berkeley, California, U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	All stakeholders will be invited to participate
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	10	Develop a tracking process for the completion of recovery tasks and achievement of delisting criteria	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	11.1	Determine if Population Viability Analysis should be conducted for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Need information from Tasks 7.18, 7.19
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	11.2	Conduct Population Viability Analysis if warranted	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Dependent on Task 11.1
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	11.3	Refine delisting criteria	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	13	Produce and distribute an addendum to this recovery plan every 5 years	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Addendum produced every 5 years starting in year 5
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.1.1.1	Provide schools with species and recovery effort information	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	\$500 to revise every five years
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	2.1.1.3	Provide information to use for interpretive program for Alameda whipsnake	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	2.1.1.4	Allow for captive Alameda whipsnake to be used for educational displays	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	2.1.2	Communicate with the public on recovery status	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	2.1.3.1	Provide information to public on fire issues	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, Hills Emergency Forum, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	Provide information every 3 years until species are recovered
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.1.3.2	Provide information to the CDF vegetation management program	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.1.4.2	Provide worker awareness training for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	In association with landowners
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.2	Develop and implement economic or other incentives	Not Started			County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Cost and duration depend on nature of incentives developed

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.3.1	Work with groups that provide policy makers with policy recommendations	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.3.2	Encourage and assist development and implementation of Habitat Conservation Plans	Ongoing Current			County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Several HCPs and a Conservation Strategy have been completed or initiated that include the Alameda whipsnake: East Contra Costa HCP, PG&E HCP, EBMUD, and the East Alameda County Habitat Conservation Strategy.
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.3.3	Encourage and assist development and implementation of conservation banks	Ongoing Current			County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Several Conservation Banks have been finalized or are in the process of doing so that include Alameda whipsnake. However, the Ohlone banks are in the southern portion of the range the whipsnakes are likely intergrades. Mitigation at Ohlone for impacts to pure AWS should be discouraged. Another conservation bank is being created in western Contra Costa County.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	2.4.1	Make available life history research prioritization list	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	2.4.2	Assist in providing research opportunities and funding	Not Started			East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Costs reflect grantwriting and administrative support expenses for research. Also see Task 7 for specific research projects; other studies may be developed as well. Additional research needs for A. pallida, expected after Alameda whipsnake recovery, cannot be quantified at this time.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	3.1.1	Inventory and coordinate existing spatial data	Ongoing Current	FY 2000 - FY 2004		California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, Alameda and Contra Costa Biodiversity Working Group, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Mapping complete for pallid manzanita; whipsnake mapping not initiated. However, ARPA maps have not been compiled into a single map. East Bay Regional Parks GPSed all of their plants in 2004, including canopy cover. The City of Oakland GPSed all the known plants on their park properties and within the neighborhood adjacent to Huckleberry Preserve.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	3.1.2	Identify data gaps and procure additional data	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	3.1.3	Analyze results from Geographic Information System (GIS) mapping exercise	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	3.2	Establish and utilize centralized database	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Time for establishment 1 year; to use continual. Availability will be to Implementation Team.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	3.3	Provide updated information and funding to fire model programs	Not Started			U.S. Fish and Wildlife Service, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.1.1	Implement immediate management actions to return or mimic natural disturbance regimes	Not Started			California Department of Parks and Recreation, California Department of Transportation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, Shea Homes (owners of the Pleasanton Conservation Bank), Save Mt. Diablo, Local and Regional Fire Jurisdictions (East San Francisco Bay area), U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Cost dependent on mapping assessment Task 3.1.3 All listed landowners equally responsible
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.1.2	Incorporate recovery goals and conservation strategies into CDF wildlife protection zones	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.1.3	Develop Memoranda of Understanding	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Save Mt. Diablo, City of Berkeley, California, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	Costs reflect expenses of MOU review by multiple agencies, meetings, presentations to management, legal review, etc.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.1.4	Ensure current or future uses of pesticides, herbicides, insecticides, fungicides and rodenticides do not adversely impact ecosystem	Not Started			California Department of Parks and Recreation, California Department of Pesticide Regulation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, City of Berkeley, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	4.2.1	Implement management actions which combine and coordinate management tasks from overlapping recovery plans	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Save Mt. Diablo, City of Berkeley, California, U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Fish and Wildlife Service, California Department of Forestry and Fire Protection, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Also Responsible Parties from overlapping recovery plans
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.2.2	Integrate land use needs and fire management into immediate management actions	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Save Mt. Diablo, City of Berkeley, California, U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Fish and Wildlife Service, California Department of Forestry and Fire Protection, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Cost dependent on mapping assessment in Task 3.1.3

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	4.2.3	Combine surveys for special status species when appropriate	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Also Responsible Parties from overlapping recovery plans
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.3.1	Coordinate on projects included in regional transportation improvement program	Not Started			California Department of Transportation, County governments, U.S. Federal Highway Administration, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Costs reflect establishment of an FTE to coordinate ESA consultations for highway/ transportation projects in Bay Area.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	4.3.2	Coordinate with agencies for tracking of habitat fragmentation	Not Started			County governments, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Cost depends on assessment of needs in Task 3.1.3. Share costs with US Army Corps of Engineers and US Geological Survey
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	5.1.1	Determine staffing levels appropriate for plan implementation	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	5.1.2	Fund and hire additional staff	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost & task duration dependent on Task 5.1.1

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	5.3.1.1	Protect and secure populations of Alameda whipsnake in Recovery Unit 1	Ongoing Current			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Precise extent and location need to be determined
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	5.3.1.2	Protect and secure populations of Alameda whipsnake in Recovery Unit 2	Ongoing Current			East Bay Regional Park District, East Bay Municipal Utility District, City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Precise extent and locations need to be determined. High development threat in this Recovery Unit
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	5.3.1.3	Protect and secure populations of Alameda whipsnake in Recovery Unit 3	Ongoing Current			East Bay Regional Park District, Shea Homes (owners of the Pleasanton Conservation Bank), City of Pleasanton, California, City of Hayward, California, City of Fremont, California, Union City, California, Town of Sunol, California, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Precise extent and locations need to be determined. High development threat in this Recovery Unit

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	5.3.1.4	Protect and secure populations of Alameda whipsnake in Recovery Unit 4	Ongoing Current			California Department of Parks and Recreation, East Bay Regional Park District, Contra Costa Water District, Save Mt. Diablo, City of Walnut Creek, California, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Precise extent and location need to be determined
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	5.3.1.5	Protect and secure populations of Alameda whipsnake in Recovery Unit 5	Ongoing Current			East Bay Regional Park District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Precise extent and location need to be determined
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	5.3.1.6	Protect and secure populations of Alameda whipsnake in Recovery Unit 6	Ongoing Current			California Department of Transportation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, City of Berkeley, California, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Precise extent and locations need to be determined. High development threat in this Recovery Unit
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	5.3.1.7	Protect and secure populations of Alameda whipsnake in Recovery Unit 7	Not Started			East Bay Regional Park District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Precise extent and locations need to be determined. High development threat in this Recovery Unit

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	5.3.2.1	Ensure current or future uses of rodenticides, herbicides, pesticides, etc. do not adversely affect Alameda whipsnake	Not Started			California Department of Parks and Recreation, California Department of Pesticide Regulation, California Department of Transportation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Shea Homes (owners of the Pleasanton Conservation Bank), Save Mt. Diablo, City of Berkeley, California, City of Pleasanton, California, City of Hayward, California, City of Fremont, California, Union City, California, Town of Sunol, California, City of Walnut Creek, California, Livermore Area Recreation and Parks District, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Ongoing training needed; scope of threats and necessary management to be determined.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	5.3.2.2.1	Control nonnative plants to reduce threat to Alameda whipsnake	Not Started			California Department of Parks and Recreation, California Department of Transportation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Shea Homes (owners of the Pleasanton Conservation Bank), Save Mt. Diablo, City of Berkeley, California, City of Pleasanton, California, City of Hayward, California, City of Fremont, California, Union City, California, Town of Sunol, California, City of Walnut Creek, California, Livermore Area Recreation and Parks District, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	All landowners equally responsible parties. Scope of threats to be assessed via Tasks 3.1.1-3.1.3

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	5.3.2.2.2	Control feral cats and pigs and other nonnative predators	Not Started			California Department of Parks and Recreation, California Department of Transportation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Shea Homes (owners of the Pleasanton Conservation Bank), Save Mt. Diablo, City of Berkeley, California, City of Pleasanton, California, City of Hayward, California, City of Fremont, California, Union City, California, Town of Sunol, California, City of Walnut Creek, California, Livermore Area Recreation and Parks District, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	All landowners equally responsible parties. Cost 2.5 annually starting in year 6.
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	5.3.2.3	Ensure native predators do not threaten the recovery of Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	County and City Planning

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	5.3.2.4	Ensure unauthorized collection does not occur	Not Started			California Department of Parks and Recreation, California Department of Transportation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Shea Homes (owners of the Pleasanton Conservation Bank), Save Mt. Diablo, City of Berkeley, California, City of Pleasanton, California, City of Hayward, California, City of Fremont, California, Union City, California, Town of Sunol, California, City of Walnut Creek, California, Livermore Area Recreation and Parks District, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	All landowners are equally responsible parties. Cose of outreach an d enforcement unknown

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	5.3.2.5	Ensure chaparral whipsnake and/or intercross progeny does not threaten Alameda whipsnake	Obsolete			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Intercross progeny occur naturally and it does not appear humans have influenced the rate or geographic boundaries of the intercross zone. Also, based on mtDNA, there does not appear to be a genetic difference between phenotypes in the intercross zone.
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.1.2.1	Develop and implement survey protocols and standard recommendations for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	in process
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.1.2.2	Provide training on survey guidelines and handling of Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.10	Conduct surveys of historical and potential habitat at Regional Park Properties (Alameda County) for Alameda whipsnake	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	X # of parks
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	6.2.11	Conduct surveys of historical and potential habitat at Bailey Ranch area (Alameda County) for Alameda whipsnake	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	6.2.12	Conduct surveys of historical and potential habitat in hills east of Union City (Alameda County) for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	6.2.13	Conduct surveys of historical and potential habitat at Sunol Ridge (Alameda County) for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	6.2.14	Conduct surveys of historical and potential habitat at Palomares Canyon (Alameda County) for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.15	Conduct surveys of historical and potential habitat at Alameda Watershed (Alameda County) for Alameda whipsnake and Berkeley kangaroo rat	Not Started			San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	6.2.16	Conduct surveys of historical and potential habitat at Caldecott Tunnel area (Alameda County) for Alameda whipsnake	Not Started			California Department of Transportation, East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	6.2.17	Conduct surveys of historical and potential habitat at Vargas Plateau (Alameda County) for Alameda whipsnake	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	6.2.18	Conduct surveys of historical and potential habitat at Alameda Creek (Alameda County) for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	6.2.19	Conduct surveys of historical and potential habitat at Niles Canyon (Alameda County) for Alameda whipsnake	Not Started			California Department of Transportation, East Bay Regional Park District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	6.2.2	Conduct surveys of historical and potential habitat within Recovery Units as determined from tasks 3.1.1 to 3.1.3 in Alameda County for Alameda whipsnake and Berkeley kangaroo rat	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Other responsible parties and leads will be identified upon completion of tasks 3.1.1 to 3.1.3
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.22	Conduct surveys of historical and potential habitat at Corral Hollow (Alameda County) for Alameda whipsnake and Berkeley kangaroo rat	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.23	Conduct surveys of historical and potential habitat at Calaveras Reservoir and Watershed (Santa Clara County) for Alameda whipsnake and Berkeley kangaroo rat	Not Started			San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.25	Conduct surveys of historical and potential habitat within units as determined from tasks 3.1.1 to 3.1.3 in Contra Costa County for Alameda whipsnake and Berkeley kangaroo rat	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Other responsible parties and leads will be identified upon completion of tasks 3.1.1 to 3.1.3
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.29	Conduct surveys of historical and potential habitat on Mount Diablo (Contra Costa County) for Alameda whipsnake and Berkeley kangaroo rat	Not Started			California Department of Parks and Recreation, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	6.2.30	Conduct surveys of historical and potential habitat at Los Vaqueros (Contra Costa County) for Alameda whipsnake	Not Started			Contra Costa Water District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.31	Conduct surveys of historical and potential habitat at Lime Ridge (Contra Costa County) for Arctostaphylos manzanita ssp. laevigata and Alameda whipsnake	Not Started			City of Walnut Creek, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.32	Conduct surveys of historical and potential habitat at Gateway (Contra Costa County) for Alameda whipsnake	Not Started			East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.33	Conduct surveys of historical and potential habitat at Huckleberry Preserve (Contra Costa County) for Alameda whipsnake	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.34	Conduct surveys of historical and potential habitat at Lafayette Reservoir (Contra Costa County) for Alameda whipsnake	Not Started			East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	First of 3 years completed.
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.40	Conduct surveys of historical and potential habitat at Corral Hollow (San Joaquin County) for Alameda whipsnake, Berkeley kangaroo rat, Amsinckia grandiflora, and Eriogonum truncatum.	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.41	Conduct surveys of historical and potential habitat East of Calaveras Watershed to Stanislaus County line, south to Mt. Hamilton (Santa Clara County) for Alameda whipsnake and Berkeley kangaroo rat	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	6.2.42	Conduct surveys of historical and potential habitat at Calaveras Reservoir and Watershed (Santa Clara County) for Alameda whipsnake and Berkeley kangaroo rat	Not Started			San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	6.2.8	Conduct surveys of historical and potential habitat at Brushy Peak (Alameda County) for Alameda whipsnake	Not Started			East Bay Regional Park District, Livermore Area Recreation and Parks District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	6.2.9	Conduct surveys of historical and potential habitat west of Dublin (Alameda County) for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	7.1	Determine how to best re-establish historical disturbance regime	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection	Work type not yet selected	Labor type not yet selected	Research targeting major threats
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	7.11	Determine minimum patch size for subpopulations of Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Can be incorporated into Task 7.9 & 7.10
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	7.12	Determine successional stage of chaparral, scrub, grassland, or other communities preferred by Alameda whipsnake	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Can be combined with Task 7.13

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	7.13	Determine level of use and importance of non-chaparral/scrub communities for Alameda whipsnake	Ongoing Current			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Can be combined with Task 7.12. Karen Swaim has been radio tracking whipsnakes and has shown that AWS will use both dense stands of chap/scrub and patches of chap/scrub and the adjacent habitats.
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	7.14	Determine relative importance of habitat features for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Can be incorporated into Task 7.9 & 7.10
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	7.15	Determine the amount of dispersion into created, restored, or modified habitat for Alameda whipsnake	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	7.16	Determine successful creation/restoration of scrub/chaparral habitat for Alameda whipsnake	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	7.17	Determine refugia, sunning locations, foraging areas, and egg-laying location preferences for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Can be incorporated into Task 7.9 & 7.10
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	7.18	Determine age class of first breeding, fecundity rates per age class, clutch size, and mortality rates for Alameda whipsnake	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	7.19	Determine demographic information of selected sub-populations of Alameda whipsnake	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	7.21	Determine relocation / reintroduction techniques and gauge success of techniques for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	7.22	Investigate other, as yet unidentified, threats such as parasites or pathogens for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost and duration depend on nature of threats
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	7.23	Determine the genetic relationship among and between the five Recovery Units for Alameda whipsnake	Complete			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Based on the mtDNA and nuclear DNA results, there appears to be genetic differences between all units. However, mtDNA data suggests the M. l. euryxanthus phenotype does not represent a distinct subspecies.
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	7.24	Determine the role of the intercross, intercross progeny, and chaparral whipsnake in the recovery of the Alameda whipsnake	Ongoing Current			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Should be combined with 7.23.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	7.9	Determine direct and indirect effects of prescribed burns on Alameda whipsnake	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, Contra Costa Water District, U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Research targeting major threats
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	8.1.1	Develop management plan for all East Bay Regional Park District lands in Huckleberry Ridge area	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.10	Implement management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on East Bay Regional Park District lands	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.9
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.11	Develop management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on East Bay Municipal Utility District lands	Not Started			East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.12	Implement management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on East Bay Municipal Utility District lands	Not Started			East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.11
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.13	Develop management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on City of Berkeley lands	Not Started			City of Berkeley, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.14	Implement management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on City of Berkeley lands	Not Started			City of Berkeley, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.1.13
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.15	Develop management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on University of California, Berkeley lands	Not Started			University of California at Berkeley, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.16	Implement management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on University of California, Berkeley lands	Not Started			University of California at Berkeley, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.1.15

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.17	Develop management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on National Laboratories lands	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.18	Implement management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on National Laboratories lands	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.1.17
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.19	Develop management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on San Francisco Public Utility lands	Not Started			San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	8.1.2	Implement management plan for all East Bay Regional Park District lands in Huckleberry Ridge area	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on 8.1.1
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.20	Implement management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on San Francisco Public Utility lands	Not Started			San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.1.19

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.21	Develop management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on Contra Costa Water District lands	Not Started			Contra Costa Water District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.22	Implement management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on Contra Costa Water District lands	Not Started			Contra Costa Water District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.1.21
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.23	Develop management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors for Alameda whipsnake and for all populations of Arctostaphylos manzanita ssp. laevigata and Cordylanthus nidularius on California Department of Parks and Recreation lands	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.24	Implement management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors for Alameda whipsnake and for all populations of Arctostaphylos manzanita ssp. laevigata and Cordylanthus nidularius on California Department of Parks and Recreation lands	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.1.23
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.25	Develop management plan for Alameda whipsnake Recovery Unit 4 for identified population centers, connectivity areas, or corridors for Alameda whipsnake and for all populations of Arctostaphylos manzanita ssp. laevigata and Cordylanthus nidularius on Save Mount Diablo lands	Not Started			Save Mt. Diablo, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.26	Implement management plan for Alameda whipsnake Recovery Unit 4 for identified population centers, connectivity areas, or corridors for Alameda whipsnake and for all populations of Arctostaphylos manzanita ssp. laevigata and Cordylanthus nidularius on Save Mount Diablo lands	Not Started			Save Mt. Diablo, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.1.25

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.27	Develop management plan for Alameda whipsnake Recovery Unit 4 for identified population centers, connectivity areas, or corridors on City of Walnut Creek lands	Not Started			City of Walnut Creek, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.28	Implement management plan for Alameda whipsnake Recovery Unit 4 for identified population centers, connectivity areas, or corridors on City of Walnut Creek lands	Not Started			City of Walnut Creek, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.1.27
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	8.1.29	Develop management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on Bureau of Land Management lands	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.3	Develop management plan for all East Bay Municipal Utility District lands in Huckleberry Ridge area	Not Started			East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	8.1.30	Implement management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on Bureau of Land Management lands	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.29

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.4	Implement management plan for all East Bay Municipal Utility District lands in Huckleberry Ridge area	Not Started			East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.3
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.5	Develop management plan for City of Oakland land at Joaquin Miller Park	Ongoing Current			City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	A plan for Chabot Space and Science Center has been developed. However, implementation has not begun.
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.6	Implement management plan for City of Oakland land at Joaquin Miller Park	Not Started			City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.5
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.7	Develop management plan for East Bay Regional Park District land at Sobrante Ridge	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.8	Implement management plan for East Bay Regional Park District land at Sobrante Ridge	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost dependent on Task 8.1.7
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.1.9	Develop management plan for Alameda whipsnake Recovery Units 1-7 for identified population centers, connectivity areas, or corridors on East Bay Regional Park District lands	Not Started			East Bay Regional Park District, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.2.1	Establish monitoring protocols for the species covered in this plan	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	8.2.3	Choose and monitor representative populations of Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Other Responsible Parties to be identified once sites are chosen
Pallid manzanita (Arctostaphylos pallida), Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	8.2.5	Perform long-term ecological monitoring of chaparral/scrub habitat	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, East Bay Municipal Utility District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Cost depends on scope assessed in Task 3.1.3. Use information from Task 4.3.2
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	9.2.1.1	Restore habitat for Alameda whipsnake within Tilden/Briones (Recovery Unit 1)	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Task duration and Total Costs are dependent on amount of habitat to be enhanced.
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	9.2.1.2	Restore habitat for Alameda whipsnake within Oakland/Las Trampas (Recovery Unit 2)	Not Started			East Bay Regional Park District, East Bay Municipal Utility District, City of Oakland, California, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Cost dependent on amount of acreage to be restored which is unknown

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	9.2.1.3	Restore habitat for Alameda whipsnake within Hayward/Pleasanton Ridge (Recovery Unit 3)	Not Started			East Bay Regional Park District, Shea Homes (owners of the Pleasanton Conservation Bank), U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Cost dependent on amount of acreage to be restored which is unknown
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	9.2.1.4	Restore habitat for Alameda whipsnake within Mt. Diablo/Black Hills (Recovery Unit 4)	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, Contra Costa Water District, City of Walnut Creek, California, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Forestry and Fire Protection, Private landowners	Work type not yet selected	Labor type not yet selected	Including quarry restoration plans. Task duration and Total Costs are dependent on amount of habitat to be enhanced.
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	9.2.1.5	Restore habitat for Alameda whipsnake within Sunol/Cedar Mountain (Recovery Unit 5)	Not Started			California Department of Parks and Recreation, East Bay Regional Park District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Task duration and Total Costs are dependent on amount of habitat to be enhanced.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	9.2.1.6	Restore habitat for Alameda whipsnake within Caldecott Tunnel Corridor (Recovery Unit 6)	Not Started			East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, City of Berkeley, California, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Cost dependent on amount of acreage to be restored which is unknown
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	1	9.2.1.7	Restore habitat for Alameda whipsnake within Niles Canyon/Sunol Corridor (Recovery Unit 7)	Not Started			California Department of Transportation, County governments, East Bay Regional Park District, San Francisco Public Utilities Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	Cost dependent on amount of acreage to be restored which is unknown

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	2	9.2.2	Enhance occupied habitat and adjacent habitat for Alameda whipsnake	Not Started			East Bay Regional Park District, University of California at Berkeley, East Bay Municipal Utility District, City of Oakland, California, Contra Costa Water District, San Francisco Public Utilities Commission, Shea Homes (owners of the Pleasanton Conservation Bank), Save Mt. Diablo, Local and Regional Fire Jurisdictions (East San Francisco Bay area), City of Berkeley, California, City of Pleasanton, California, City of Hayward, California, City of Fremont, California, Union City, California, Town of Sunol, California, City of Walnut Creek, California, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, California Department of Forestry and Fire Protection, U.S. Department of Energy	Work type not yet selected	Labor type not yet selected	Task duration and Total Costs are dependent on amount of habitat to be enhanced.
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	9.2.3.1	Develop genetics management plan for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Development of a genetics management plan will occur after year 4
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	9.2.3.2	Implement captive breeding program for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Depends on assessed need and feasibility of reintroductions (Tasks 7.2.1, 9.2.3.1)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Alameda whipsnake (=striped racer) (Masticophis lateralis euryxanthus)	3	9.2.3.3	Develop and implement reintroduction program in coordination with captive breeding program for Alameda whipsnake	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Depends on assessed need and feasibility of reintroductions (Tasks 7.2.1, 9.2.3.1)